

L 22578-66

ACC NR: AP6012975

the Teaching-Methodological Commission of the Ministry of Higher and Intermediate Special Education USSR, for the specialty "Electrical supply to industrial enterprises and cities." Orig. art. has: 1 figure. [JPRS]

SUB CODE: 05, 10, 09 / SUBM DATE: none

Card

2/2

BK

L 27948-66

ACC NR: AP6017708

SOURCE CODE: UR/GIO/66/001/1/001/006

AUTHOR: Bertinov, A. I.; Voronetskiy, B. B.; Gendel'man, B. R.; Girshberg, V. V.; Gromov, V. I.; Druzhinin, N. N.; Kunitskiy, N. P.; Naumenko, I. Ye.; Petrov, I. I.; Vetrov, G. N.; Rusakov, V. G.; Silayev, E. F.; Slezhanovskiy, O. V.; Syromyatnikov, I. A.; Tulin, V. S.; Filin, N. M.; Tselikov, A. I.; Chilikin, M. G.; Yun'kov, M. G.

ORG: none

TITLE: Engineer N. A. Tishchenko (on his 60th birthday)

SOURCE: Elektrichestvo, no. 1, 1966, 85-86

TOPIC TAGS: electric engineering personnel, metallurgical furnace, electric equipment

ABSTRACT: Nikolay Afanas'yevich Tishchenko completed the Khar'kov Electrotechnical Institute in 1930, after working as an electrician in a Metallurgical plant from 1923-1926. He was active in the development of domestically produced electrical equipment for rolling mills and metallurgical furnace works. He was active during WWII in restoring electrical equipment damaged by the Germans. After the war, he was active in developing electrical drive equipment for both domestic and foreign metallurgical plants. He has been active in scientific work, publishing over 45 works in such varied fields as electric drives, equipment reliability and productivity of labor. Orig. art. has: 1 figure. [JPRS]

SUB CODE: C9, 13 / SUBM DATE: none

Card 1/1 B.L.G.

UDC: 621.34

L 27947-66

ACC NR: AP6017709

SOURCE CODE: UR/0105/66/000/001/0006/0006

AUTHOR: Avilov-Karnaukhov, B. N.; Bol'sham, Ya. M.; Venikov, V. A.; Volobrinskiy, S. D.; Yermilov, A. A.; Konstantinov, B. A.; Knyazevskiy, B. Ye.; Minin, G. P.; Miller, G. R.; Mukoseyev, Yu. L.; Petrov, I. I.; Serbinovskiy, G. V.; Syromyatnikov, I. A.; Fedorov, A. A.; Kholmskiy, G. V.; Shagalov, A. S.; Chilikin, M. G.

ORG: none

TITLE: Prof. Georgiy Mikhaylovich Kayalov (on his 60th birthday)

SOURCE: Elektrichestvo, no. 1, 1966, 86

TOPIC TAGS: academic personnel, electric engineering personnel, electric equipment

ABSTRACT: In 1929, G. M. Kayalov completed the electrotechnical department of the Mechanical Faculty of the Novocherkassk Polytechnical Institute. Until 1947, he worked in the planning department of the Rostov Division of the All-Union Electrotechnical Union. In this time, he rose to the position of Chief Engineer. He directed the planning of a large number of important pieces of electrical equipment for various projects. He was active in the postwar restoration of many important industrial enterprises. He is the author of almost 70 published works, and has made a great contribution to modern, scientifically based methods of design and analysis of electrical loads for industrial equipment. He is on a number of commissions and in many scientific and technical societies. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

UDC: 621.34

Card 1/1 366

BAMDAS, A.M.; BOL'SHAM, Ya.M.; BORCHANINOV, G.S.; GLAZUNOV, A.A.; ZADESSKIY, A.M.; KONSTANTINOV, B.A.; LIVSHITS, D.S.; LYCHKOVSKIY, V.I.; MILLER, G.R.; PETROV, I.I.; PLESKOV, V.I.; SAMOVER, M.L.; STROMYATNIKOV, I.A.; CHILIKIN, M.G.

Professor I'urii Leonidovich Mukoseev; 1905, on his 60th birthday.
Elektrichestvo no.6:91 Je '65. (MIRA 18:)

PETROV, I.I.

Some tendencies in the development of military psychology
thought in pre-revolutionary Russia. (op. 1928-30). 110 p.
M.P.-159. N-D 161. (MIRA 194)

1. Institut psichologii, Pizet.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430001-6

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240430001-6"

L 10461-66 EWT(1)/EWA(h)

ACC NR: 35027554

SOURCE CODE: UR/0274/65/000/008/A011/A011

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 8A86

AUTHOR: Petrov, I. I.

TITLE: Matching electric-filter sections according to their characteristic impedances

CITED SOURCE: Sb. tr. Leningr. in-t inzh. zh.-d. transp., vyp. 224, 1964, 100-107

TOPIC TAGS: electric filter, filter circuit

TRANSLATION: It is proven that the attenuation curve of high-and-low-pass filters can be improved by using load and generator impedances differing from characteristic impedances of filter sections. A formula is developed for filter effective attenuation, which shows that there is internal characteristic-impedance mismatch in the filters composed from low-pass and high-pass sections; this results in a reduced effective passband if the load impedance is equal to the characteristic impedance. Hence, with $\beta = 0.05--0.3$, it is better to select the load and generator impedances equal to one-half of the section characteristic impedance (β is the ratio of lower-to-higher filter cutoff frequencies). An example of calculation of a filter consisting of two series-connected T-sections and operating in an audio-frequency band is given. Bib 2, figs 5.

SUB CODE: 09

HW
Card 1/1

UDC: 621.372.54

LETOV, I.I., doctor of sci.

Training of engineers in the field of electrical
automation of industrial systems. Elektr. tekhn.
no. 9-10 S. 165.

1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order. The names are: [illegible]

PETROV, I.I., doctor techn. nauk, prof. Moskva; GAYDAR, A.V.,
kand. techn. nauk Moskva,

Calculation of special operating modes of induction motor
with squirrel cage rotor. Elektricheskoe stroitel'stvo, No 5.
1976-1977.

VESHENFVSKIY, S.N.; VESHENFVSKIY, S.N.; VESHENFVSKIY, S.N.; VESHENFVSKIY, S.N.;
MASLENNIKOV, I.V.; MASLENNIKOV, I.V.; MASLENNIKOV, I.V.; MASLENNIKOV, I.V.;
STEFANOV, M.M.; STEFANOV, M.M.; STEFANOV, M.M.; STEFANOV, M.M.;
SHCHYIN, I.M.

Professor Konstantin Maslennikov, 1907-1964; obituary.
Elektrichestvo no. 31. Mr. 165.

L 2269-66 EWT(d)/EWP(t)/EWP(v)/T/EWP(k)/EWP(h)/EWP(l)
ACCESSION NR: AP5026356

UR/0105/64/000/009/0093/0093

AUTHOR: Yefremov, I. S.; Minov, D. K.; Petrov, I. I.; Rosenfel'd, V. Ye;
Svenchanskiy, A. D.; Sokolov, M. M.; Fufryanskiy, N. A.; Chilikin, M. G.

TITLE: Aleksandr Dmitriyevich Stepanov on his 60th birthday

SOURCE: Elektrichestvo, no. 9, 1964, 93

TOPIC TAGS: electric engineering personnel

ABSTRACT: A. D. Stepanov, Professor in the Department of "Electrical Transportation" of the Moscow Power Engineering Institute and prominent specialist in the field of diesel and gas turbine transportation, had his sixtieth birthday this year. His interest for the past 35 years has been in the field of automation of transportation equipment. Among the great number of printed works by Professor Stepanov, his books "Diesel-electric Drive for Transportation Equipment" and "Ways for Increasing the Efficiency of Diesels and Gas Turbine Locomotives" deserve special attention along with a number of books on diesels written by him in co-authorship with workers in industry and transport. He has just published a new book, "Automatic Power Control of Diesel and Gas-Turbine Locomotives."

Card 1/2

L 2969-66

ACCESSION NR: AP5026356

He began his engineering activity at the "Dynamo" factory im. Kirov. A system which he developed is used in mass produced diesel locomotives. Other systems for the electric transmissions on diesel locomotives and gas turbine locomotives which were developed under his direction are being used in Soviet industry. He is the founder of a course "Diesel-electric Rolling Stock" at the Moscow Power Engineering Institute. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EE

NR REF SOV: 000

OTHER: 000

JPRS

BVK

Card 2/2

CHILIKIN, M.G., doktor tekhn. nauk, prof. (Moskva); PETROV, I.I., prof.
doktor tekhn. nauk (Moskva); VORONETSKIY, B.B., dotsent, kand.
tekhn. nauk (Moskva)

Trends in the development of automated electric drives. Elektrichestvo no.3:1-7 Mr '65. (MIRA 18:6)

SH. GAB. V. M.I., kand. tekhn. nauk; IETKOV, I.I., doktor tekhn.
nauk, prof., red.

Stanes. V. V.; electric and magnetic fields of the water.
1. V. V. G. I. Transformatory - elektricheskie i magn-
itnye polya obmotok, 1961-1963. Moskva, 1962. 67 p.
(MIRA 1815).
2. Akademiya nauk SSSR. Institut nauchnoy informatsii.

PETROV, I.K.

New method for measuring the density of various liquids and
solutions. Priroda 1964, No. 4, p. 104. (MIRA 17:6)

ANDRIANOV, V.H.; BUDZKO, I.A.; BURGUCHEV, S.A.; LISTOV, P.N.; PETROV, I.I.;
POYARKOV, M.F.; SKVORTSOV, P.F.

G.I. Nazarov; on his 60th birthday. Elektrichestvo no.9:92 S
'63. (MIRA 16:10)

PERIODICALLY

It is noted that the organizational structure of the national radio network is being reorganized to provide for a more efficient and effective operation. The reorganization is being carried out in a phased manner, with the first phase completed by the end of the year. The second phase is currently in progress, and the third phase is planned for the beginning of the next year. The reorganization is expected to result in a more streamlined and efficient operation, with improved coordination and communication between the various components of the network.

PETROV, I.I., kand. tekhn. nauk

Feature of an m-generation filter. Sbor. trud. LIIZHT no. 12.
Elektrosvyaz' i radiotekhnika: 53-65 '62. (MIRA 1962)

(Electric filters)

KUZNETSOV, M.I.; PETROV, I.I.; SOSKOV, A.I.

Improvement of blast furnace top fittings. Metallurg 8 no.9:
9-13 S '63. (MIRA 16:10)

1. Chelyabinskiy metallurgicheskiy zavod.
(Blast furnaces—Equipment and supplies)

CHILIKIN, M.G.; TUBILEV, A.I.; DOLOVANI, A.T.; PETROV, I.I.; BYCHEV, V.V.;
SOKOLOV, M.M.; DOLZHININ, N.N.; KHEBENTSEV, S.N.; KHALILOV, S.R.;
TISHCHENKO, N.A.

1. Obituary. Elektricheskoye 1933 May 1933.

(Morozov, Dmitri Petrovich,

PETROV, I.I., inzhener

Long-distance radio communication conditions in Mirnyy.
Inform. biul. Sov. antark. eksp. no.33:44-45 '62. (MIRA 16:2)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut.

(Mirnyy Station, Antarctica—Radio)

PETROV, B.N.; SOTSKOV, B.S.; LARIONOV, A.N.; CHILIKIN, M.G.;
SYROMYATNIKOV, I.A.; BLAGONRAVOV, A.A.; KRUSHILIN, G.N.;
IVAKHLENKO, A.G.; NAGORSKIY, V.D.; CHELYUSTEIN, A.B.;
DROZDOV, N.G.; PETROV, I.I.

Seventieth birthday of Viktor Sergeevich Kulebakin. Elektrich-
estvo no.10:90-91 0 '61. (MIR 14:10
(Kulebakin, Viktor Sergeevich, 1891-

LISOV, V.N.; NOVIKOV, V.A.; PETROV, I.I.; RYKZANSEV, B.S.;
SVIEDLICHENKO, D.Ya.; SOKOLOV, V.F.; TYURIN, V.L.; EYLE, A.A.

Sixtieth anniversary of the birth of an outstanding scientist.
Avtom., telem. i svyaz' 6 no.4:44 Ap '62. (MLA 1 14)
(Kamlau, Pavel Nikolaevich 1902-)

PETROV, I. I.

"Scientific-Technical Problems of Automatic Electric Drive"

report presented at the Symposium on Variable Speed Electric Drives in Steel Mills,
Prague, Czechoslovakia, 5-15 Sep 1960.

ALEKSEYEV, A.Ye.; BULGAKOV, K V ; ZILITINKEVICH, S.I. ; IVANOV, V.I. ;
PETROV, I.I.; RYZHOV, P.I.; SYROMYATNIKOV, I.A.; TEBELZEV, V.
SHCHEDRIN, N N - PATEYEV, A.V

Sixtieth anniversary of the birth of Dmitrii Vasil'evich Vasil'ev
Elektrichestvo no 3 93 Mr . (1961) 15.
(Vasil'ev Dmitrii Vasil'ovich, 1901-)

PETROV, I.I., prof., doktor tekhn.nauk; DRUZHININ, N.N., kand.tekhn.nauk

International symposium on electric equipment and automatic
control of metallurgical plants. Elektrichestvo no.1:90-93
Ja '61. (Automatic control) (MIRA 14:4)

(Metallurgical plants—Electric equipment)

PETROV, I.I., general-leytenant tankovykh voysk v zapase (Kiyev)

"Psychology" by G.D.Lukov. Reviewed by I.I.Petrov. Vop.psikhol. 7
no.2:160-162 Mr-Ap '61. (MIRA 14:6)
(Psychology, Military) (Lukov, G.D.)

PETROV, Ivan Ivanovich; GRAYEVSKIY, A.M., red.; FILIPPOVA, K.G., tekhn.
red.

[Towards a new upsurge in the agriculture of the western Urals]
K novomu pod"emu sel'skogo khoziaistva Zapadnogo Urala. Perm',
Permskoe knizhnoe izd-vo, 1960. 29 p. (MIRA 14:11)
(Ural Mountain region -Agriculture)

1009
S 081/61/000/015/080/111
B117/B102

1009

AUTHORS Gerasimov, V. A., Petrov, I. I., Reutt, V. Ch.,
Tsygan, R. M., Yagubyan, L. K.

TITLE Combined methods of extinguishing burning petroleum
products in containers

PERIODICAL Referativnyy zhurnal. Khimiya, no. 15, 1961, 331, abstract
15W364 (Sb. "Novyye sposoby i sredstva tusneniya plameni
nefteproduktov" M., Gostoptekhnizdat, 1960. 44-124

TEXT The principles of a combined extinguishing method "atomized water
(AW) and mechanical air foam (MAF)" were examined. The fire-extinguishing
effect of MAF is lower if it is used for extinguishing fires of heated
petroleum products without prior cooling of the layer being heated. A
combined application of AW and MAF to extinguish flames of petroleum
products burning in containers and forming a heated layer during free
burning is described. A relationship was established between the
temperature of the petroleum product after cooling and the cooling time,
depending on the intensity of atomized water supply, the time of open

Card 1 of 1

Combined methods of exting. spray ..

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R11 R102

burning, the temperature of the heated layer, etc. Constants were
calculated for gasoline. Tests conducted to fight burning gasoline in
containers of different diameters using mechanical and chemical foam are
described. In these tests, the heated gasoline layer was first cooled
with atomized water. Tests made with the combined method of atomized water
and chemical foam in containers ≤ 1.5 m in diameter showed positive
results. [Astrakher's note: Complete translation.]

X

PETROV, Ivan Ivanovich; REUTT, Viktor Cheslavovich; RYABOV, I.V., red.;
CHEKRYZIN, V.A., red.; tekhn. red.

(Extinction of the flame of liquid fuels. Tushenie plameni poristokh
zhidkostei. Moscow. Izdatel'stvo khim. i tekhn. nauch. liter., 1961. 141 p.

(MIRA L-11)

(Liquid fuels) (Fire extinction)

PETROV, I.I., doktor tekhn.nauk, prof.; SHCHUKIN, A.I., kand.tekhn.nauk, dots.; ZUSMAN, V.G., kand.tekhn.nauk, dots., ARZAMASTSEV, P.S., kand.tekhn.nauk, dots.; PANTYUSHEV, G.S., kand.tekhn.nauk; NEVRAYEV, V.Yu., kand.tekhn.nauk; POPOV, G.A., dots.

"Principles of electric driving" by A.T. Golovan. Revised by
I.I. Petrov and others. Elektrichestvo no.8:93-95 Ag '60.
(MIRA 13:8)

(Electric driving)
(Golovan, A.T.)

VLADZIIYEVSKIY, A.P.; DIKUSHIN, V.I.; PETROV, I.I.; BABAKOV, N.A.
TAREYEV, B.M.; CHILIKIN, M.G.

Valdimir Grigor'evich Zusman. Elektrichestvo no. 11:94 II '60.
(MIRA 13:12)
(Zusman, Valdimir Grigor'evich, 1910-)

PETROV, I.I., doktor tekhn.nauk, prof.; SYROMYATNIKOV, I.A., doktor tekhn.nauk, prof.; LITVINOV, V.N.; FROM, A.A.; GERSHKOVICH, S.P.; POPOV, S.N.; BOCHAROV, V.I.

In regard to the letter written by V.V.Artamonov, A.A.Fedorov, and M.I.Kiselev on "Improvement in the training of specialists in the field of electrification of industrial enterprises." Prom. energ. 15 no.9:55-59 S '60. (MIRA 13:10)

1. Nachal'nik elektrotsekha, g.Krasnoyarsk (for Litvinov). 2. Glavnyy energetik Kazgiprotsvetmet (for From). 3. Glavnyy energetik Novo-Kemerovskogo khimkombinata (for Gershkovich). 4. Sverdlovskiy sov-narkhoz (for Popov). 5. Frunzenskiy politekhnicheskiy institut (for Bocharov).

(Electricians--Education and training)

(Electrification)

(Artamonov, V.V.) (Fedorov, A.A.) (Kiselev, M.I.)

PETROV, I.I., kand.tekhn.nauk, dotsent

Piezoelectric filter with resilient mechanical coupling between
the crystals. Sbor. LIIZHT no. 169:135-147 '60.

(MIRA 13:11)

(Electric filters)

PETROV, G.N.; ROZENFEL'D, V.Ye.; KAGANOV, I.L.; PETROV, I.I.;
STAROSKOL'SKIY, N.A.; TARE, B.M.

Vasilii Aleksandrovich Iz"iurov. Elektrichestvo no.7:93 J1
'60. (MIRA 13:8)
(Iz"iurov, Vasilii Aleksandrovich, 1885-)

PHASE I BOOK EXPLOITATION

SCV/4553

Vsesoyuznoye ob"yedinennoye soveshchaniye po avtomatizatsii proizvodstvennykh protsessov v mashinostroyenii i avtomatizirovannomu elektroprivedu v promyshlennosti. 3d, Moscow, 1959

Elektroprived i avtomatizatsiya promyshlennykh ustanovok; trudy soveshchaniya (Electric Drive and Automation in Industrial Systems; Transactions of the Conference) Moscow, Gosenergoizdat, 1960. 470 p. 11,000 copies printed.

General Eds.: I.I. Petrov, A.A. Sirotin, and M.G. Chilikin; Eds.: I.I. Sui, and E.F. Silayev; Tech. Eds.: K.P. Voronin, and G.Ye. Larionov.

PURPOSE: The collection of reports is intended for the scientific and technical personnel of scientific research institutes, plants and schools of higher education.

COVERAGE: The book is a collection of reports submitted by scientific workers at plants, scientific institutes and schools of higher education at the third Joint All-Union Conference on the Automation of Industrial Processes in Machine Building and Automated Electric Drives in Industry held in Moscow on May 12-16, 1959. The Conference was called by the Academy of Sciences USSR, the Gosplan SSSR (State Planning Commission USSR), the GNTK SSSR, the Gosudarstvennyy

Card 4/25

Electric Drive (Cont.)

SOV/4553

Komitet po avtomatizatsii i mashinostroyeniyu (State Committee on Automation and Machine Building) and the Natsional'nyy Komitet SSSR po avtomaticheskomu upravleniyu (USSR National Committee on Automatic Controls) and prepared by the Nauchno-tekhnicheskii komitet po avtomatizirovannomu elektroprivodu (Scientific and Technical Committee on Automated Electric Drives), the MEI (Moscow Institute of Energetics), the VNIIE, the IAT (Institute of Automation and Telemechanics) of the Academy of Sciences USSR, and the Komissiya po tekhnologii mashinostroyeniya Instituta mashinovedeniya AN SSSR (Commission on the Technology of Machine Building of the Institute of Science of Machines of the Academy of Sciences USSR). It was the purpose of the Editorial Board to arrange the reports in a way which would ensure a relatively systematic presentation of theoretical and practical problems relating to electric drives and automatic controls of industrial mechanisms used in various branches of industry. Basic problems of automated electric drive and their solution are outlined. The book also contains articles on electric machinery and means of automation. Considerable attention is paid to non-contact automatic control systems, including systems with semiconductor devices and magnetic amplifiers, and to computers intended both for the analysis and the synthesis of linear and nonlinear automatic regulation and control systems. Reports already published in journals or official publications have been considerably abbreviated; those which have appeared in volume V of SII EP transactions or in the journal "Elektrichestvo" are marked with an asterisk. No personalities are mentioned. References accompany some of the papers.

Card 2/25

8/105/60/000/.../.../...
2012/2018

AUTHORS: Vladziyevskiy, A. P., Dikushin, V. I., Petrov, I. I.,
Babakov, N. A., Tareyev, B. M., Shilkin, M. G., and
Others

TITLE: V. G. Zusman, on the occasion of his 50th Birthday and the
25th Anniversary of his Engineering, Scientific, and
Pedagogical Activities

PERIODICAL: Elektrichestvo, 1960, No. 11, p. 94

TEXT: For 20 years Vladimir Grigor'yevich Zusman has directed the
elektrotekhnicheskiy otdel Eksperimental'nogo nauchno-issledovatel'skogo
instituta metallorezhushchikh stankov (ENIMS) (Department of Electrical
Engineering at the Experimental Scientific Research Institute of Metal-
cutting Machine Tools) which plays an important role in laying down the
technological rules for the electrical equipment of machine tools and
other machinery. He is the author of more than 45 published papers and
inventions in the field of electric drive and automatic control systems.
He has delivered a great number of lectures at All-Union Technical

Card 1/2

V. G. Zusman, on the Occasion of His 50th Birthday and the 25th Anniversary of His Engineering, Scientific, and Pedagogical Activities

S/05/60/000/011/000/000
PC12/BO58

Conferences. His main studies deal with controllable electric drives involving electronic, dynamoelectric, magnetic, and semiconductor amplifiers, as well as electromagnetic clutches of various types and improvements of low-voltage apparatus. His studies on theory and practice of comprehensive automation in machine building are noteworthy. In recent years, his team developed a series of new systems for the numerical control of machine tools, extensively using electronic means, and the calculation technique. V. G. Zusman's pedagogical activity dates back to 1936, and at present he is teaching at the Vsesoyuznyy zaokhnyy energeticheskiy institut (All-Union Correspondence Institute of Power Engineering). There is 1 figure

Card 2/2

77-2560

CHILIKIN, M.G.; PETROV, I.I.

Scientific and engineering problems on automatic electric driving
in the present seven-year plan. Avtom. i telex. 21 no. 10:1-10
F '60. (MIRA 13:5)
(Electric driving) (Automatic control)

PETROV, I.I., prof., doktor tekhn.nauk, red.; SIROTIN, A.A., red.;
CHILIKIN, M.G., prof., doktor tekhn.nauk, red.; SUD, I.I.,
red.; SILAYEV, E.P., red.; VORONIN, K.P., tekhn.red.; LARIO-
NOV, G.Ye., tekhn.red.

[Electric driving and automatic control of industrial systems;
transactions of the All-Union Conference on the Automation of
Industrial Processes in Machinery Manufacture and on Automatic
Electric Driving in Industry] Elektroprivod i avtomatizatsiia
promyshlennykh ustanovok; trudy Vsesoiuznogo ob"edinennogo so-
veshchaniia po avtomatizatsii proizvodstvennykh protsessov v
mashinostroyenii i avtomatizirovannomu elektroprivodu v pro-
myshlennosti. Pod obshchei red. I.I.Petrova, A.A.Sirotina i
M.G.Chilikina. Moskva, Gos.energ.izd-vo, 1960. 470 p.

(MIRA 13:7)

1. Vsesoyuznoye ob"yedinennoye soveshchaniye po avtomatizatsii
proizvodstvennykh protsessov v mashinostroyenii i avtomatizirovan-
nom elektroprivodu v promyshlennosti. 3d, Moscow, 1959.

(Electric driving)

(Automatic control)

PETROV, Ivan Ivanovich; PROKHODTSEVA, S.Ya., red.; KISELEVA, Z.A., red. kart.;
VILENSKAYA, E.N., tekhn. red.

[Beyond the Himalayas] Zn Himalaismi. Monkva, Vos. izd-vo geogr.
lit-ry. 1958. 206 p. (MIRA 11:12)
(India)

AUTHORS:

Chilcote, M. W. and Hays, J. I. I.

TITLE:

Salinity and the Role of the Ocean in the
Climate System

PERIODICAL:

Annual Review of Earth and Planetary Sciences
1982, Vol. 11, (1982)

ABSTRACT:

This article discusses the role of the ocean in the climate system. It begins with a brief review of the basic principles of oceanography and then proceeds to a detailed discussion of the role of the ocean in the climate system. The article is divided into three main sections: (1) the role of the ocean in the climate system, (2) the role of the ocean in the climate system, and (3) the role of the ocean in the climate system. The article is written in a clear and concise style, making it accessible to a wide range of readers. It is a valuable contribution to the field of oceanography and climate science.

Card 1

PETROV, I.K.; GETSKIN, L.S.

Automatic control of the amount of air introduced into a shaft
furnace. Vest. AN Kazakh. SSR. 11 no.6:71-74 Je '54.(MLRA 7:8)
(Smelting furnaces)

PETROV, I.K., inzh.

"Proportioning equipment" by S.I. Orlov, reviewed by I.K. Petrov.
Mekh. i avtom. prikl. 1974, No. 4, p. 10. (MIRA 17:3)

PETROV, I.K.

Developing automatic control systems used in nonferrous metallurgy.
Avtom. i telem. 15 no.1:77-78 Ja-F '54. (MIRA 10:3)

1. Nachal'nik laboratorii avtomatiki altayskogo filiala Gosudarstven-
nogo nauchno-issledovatel'skogo instituta tsvetnykh metallov.
(Automatic control) (Nonferrous metal industries)

PETROV, I.K.

Unit for the remote control of the level of loose materials in
hoppers. TSvet.met.27 no.3:69-70 My-Je '54. (MIRA 10:10)

1. Altaygintsvetmet.

(Remote control) (Lead industry--Equipment and supplies)

GETSKIN, L.S.; PETROV, I.K.; SAFRONOV, A.I.

Automatic control in the production of zinc. TSvet.net. 27
no.4:16-19 J1-Ag '54. (MIRA 10:10)
(Automatic control) (Zinc--Metallurgy)

PETROV, I.K.

Designing circuits used in complex automatization. Priboroostroenie
no.12:1-2 D '56. (MLRA 10:1)
(Automatic control) (Electron-tube circuits)

PETROV, I.K.

Automatic regulation of exhausters in agglomerating plants. TSvet.
met. 29 no.2:69-74 P '56. (MLRA 9:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut svetnykh metallov.
(Exhaust systems) (Automatic control)

PETROV, I. K.

Automatic regulation of the heat regimes of tube furnaces used in the distillation of zinc in the zinc industry. I. K. Petrov. *Tsvetnyy Metal*, No. 7, 12-6 (1955). Automatic regulation of the operation of revolving tube furnaces for the distillation of Zn is discussed. Three methods of controls, independent of each other, are suggested: (a) the temp. at the upper head controls the gas pressure; (b) the temp. at the lower part of the furnace controls the supply of air; and (c) the temp. controls the feed. L. Benconia.

3
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PETROV, I.K.

Manufacture of instruments is the key to automation. Mekh.i
avtom.proizv. 15 no.10:10-15 0 '61. (MIRA 12:10,

1. Glavnyy spetsialist Gosudarstvennogo komiteta Soveta Ministrov
SSSR po avtomatizatsii i mashinostroyeniyu.

(Instrument manufacture) (Automation)

PETROV, I.K., inzh.

Exhibition of the Elliot Automation Company from England in Moscow.
Mekh.i avtom.proizv. 16 no.12:50-54 D '62. (MIRA 16:1)
(Moscow--Exhibitions)
(Great Britain--Automatic control)

PETROV, I.K.

Development of automatic control systems for industrial
production processes. Mezh. i avtom. uprav. 19 no.5:1-4,
My 1965. MIA 18:11

1. Golen Gougarstvennoye komitetu po prikladnoy fizike,
sposoby avtomatizatsii i elektronnoy upravleniya.

PETROV, I.K.

Collared turtle doves in Cherkassy Province. Ornithologia no. 71/85
'65. (MIRA 18:10)

PETROV, I.K., inzh.

Ex 100000. Instruments made by VEB "Karl Zeiss" (German Democratic Republic). Mekh. i avtom. proizv. no. 101.443.0. 1971. VDA 1971

PETROV, I.K., inzh.

British Exhibition of Instruments. Mexh. i avtom. proizv. 17
no.8:48-53 Ag '63. (MIRA 16:10)

PETROV, I.K.; SHCHUKIN, A.I.

Instruments for measuring the moisture content of various products
and materials. Priborostroenie no.9:13-16 S '60.

(MIRA 13:9)

(Moisture Measurement)

PETROV, I.K., inzh.

New methods for measuring surface moisture of solid materials.
Mekh.i avtom.proizv. 18 no.3:38-39 Mr '64. (MIRA 17:4)

BERLINER, Mark Aleksandrovich; PETROV, I.K., retsenzent; SMIRNOV, S.M.,
red.; USOL'TSKV, V.A., red.; BORUNOV, M.I., tekhn.red.

[Electric devices and methods of measuring and controlling
moisture content] Elektricheskie metody i pribory dlia izme-
reniia i regulirovaniia vlazhnosti. Moskva, Gos.energ.izd-vo,
1960. 309 p. (MIRA 13:9)

(Moisture)

KASRASHVILI, G.S.; PETROV, I.K.

New method for measuring cutting forces on machines having
reciprocating motion of cutting tools. Priborostroenie
no.4:22-23 Ap '60. (MIRA 13:6)
(Metal cutting) (Electronic instruments)

PETROV, I.K., inzh.

Level indicator for containers with a wide range of level
variations. Mekh.i avtom.proizv. 14 no.1:44-45 Ja '60.

(MIRA 13:6)

(Level indicators)

PETROV, I.K.; KOVALENKO, V.D.

Brief reports. Zav.lab. 25 no.10:1215 '59. (MIRA 13:1)

1. Kutaisskoye konstruktorskoye byuro "Proyektpribor" (for Petrov). 2. Kaluzhskiy turbinnyy zavod (for Kovalenko).
(Metals--Analysis)

28(4)

AUTHORS:

(1) Petrov, I. K., (2) Kovalenko, V. D.

05735
SCV, 32-25-10-14, 63

TITLE:

News in Brief

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, p 1215 (USSR)

ABSTRACT:

(1) The author suggests a method of determining the surface moisture which is based on a reduction of buoyancy of the sample in water. If on dipping the sample into water the whole moisture passes over into the water, the buoyancy will only depend on the weight of the sample itself (without surface moisture). Two variants of determination - a hydrometer method and a balance method - are described.

(2) The author reports on the preparation of standard samples of the Mts-2 alloy. The spectrum analysis is similar to the one described in: V. D. Kovalenko, Spectrographic Analysis of Bronze AZh 9-4, AMts 9-2, OF 10-1 and of Nickel Silver NMts 65-20, Material of the Tsentral'niy byuro nauchno-tekhnicheskoy informatsii tyazheloogo mashinostroyeniya (Central Bureau of Scientific-technical Information of Heavy-duty Machine Construction) which paper is in the press now. The chemical

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News in Brief

SCV, 32-25-10-14, 17

analysis of the standard samples is given (Table). The mean arithmetic error of determination is 7% for Mg, 8% for Si, and 2.5% for Mn. There are 1 table and 1 Soviet reference.

ASSOCIATION: (1) Kuttaiskoye konstruktorskoye byuro "Proyektiribor"
(Kutaisi Design Office "Proyektiribor")
(2) Kaluzhskiy turbinnyy zavod (Kaluga Turbine Works)

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137-58-4 6542

Translation from Referativnyi zhurnal Metallurgiya 1958, Nr 4, p 31, USSR

AUTHORS Petrov, I. K., Zinov'iyev, V. P., Lerner, V. S.

TITLE Automatic Adjustment of Certain Processes in Lead and Zinc Metallurgy (Avtomaticheskoye regulirovaniye nekotorykh protsessov v metallurgii svintsia i tsinka)

PERIODICAL Sbornik Vsesoyuznogo nauchno-issledovatel'skogo instituta avtomaticheskogo upravleniya (SIAU) 1958, Nr 4, pp 110-111

ABSTRACT The following systems of automation of various technical processes and parameters, developed by the VNIISvetMet, are described. In connection with the automatic control (AC) of the amount of air delivered to a shaft furnace, a direct relationship has been experimentally determined to exist between the rate of air flow and the productivity of the furnace, which is an object of fixed capacity. AC is employed to hold constant the amount of air blown into the oven. In AC of the rate of motion of the pallets of a sintering machine, the primary signal is the thermoelectromotive force of 4 differentially connected (paired) thermocouples, determining the position of the temperature maximum of the outgoing gases, which should be

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137-58-4-6542

Automatic Adjustment of Certain Processes in Lead and Zinc Metallurgy

in the third chamber from the front. The AC employs an electronic potentiometer, a millivoltmeter with an electronic regulator, a time relay, and an actuating mechanism manipulating the rpm of the sintering machine drive. In AC of the maximum productivity of sintering machine exhausters, the controlling quantity is the current of the exhauster motor, which is held at a prescribed constant level. AC is performed by means of an electronic potentiometer with a three-position control, a time relay, and a driving mechanism actuating a choke in the exhauster intake. In connection with AC of the operation of the assembly governing the returns in a sintering plant, the problem of the assembly is delivery of cooled return agglomerate (returns) at a temperature not higher than that desired. In AC of electrical settling furnaces for the products of lead shaft furnace smelting, three regulators employing electronic potentiometers with 3-position control sustain a definite current intensity in the circuit of each of the three electrodes by raising or lowering them. The design of AC for the thermal regime of a rotary tubular furnace provides for AC of the temperatures at the top and bottom ends of the furnace and of the vacuum, but automatic control of charging is required for the proper functioning of the AC system.

M. L.

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137-58-4-6542

137-58-4-6543

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 32 (USSR).

AUTHORS Petrov, I. K., Safronov, A. I.

TITLE Automatic Control of Various Process Parameters in Zinc and Lead Production (Avtomaticheskii kontrol' otdel'nykh tekhnologicheskikh parametrov v proizvodstve tsinka i svintsa)

PERIODICAL Sb. tr. Vses. nauch. inst. 'svetn. met.', 1956, Nr 1, pp 140-158

ABSTRACT A description is presented of special instruments and methods of measurement. In automatic control of the pH of solutions and pulps at 55-60°C, the special problems to be dealt with are high temperature, vibration, high specifications as to insulation and shielding of the conduit and the circuit of the instrument. Changes in electrode design to improve stability to vibration and insulation were introduced, as were changes in the design of electronic potentiometers. A special feature of the conditions of measurement in a floating piezometric apparatus to measure the density of solutions in equipments with varying surface levels is the change in the density of the solutions with depth, a constant depth of immersion of the piezometric tubes.

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137 58-4 6543

Automatic Control of Various Fronts

is attained by mounting them on floats. A floating relay reporting extremes in level employs a vinyl plastic float with a head of Pb and an Hg switch. When the level rises, the float tips, the contact is closed, and a signal is given. This relay may also be used to signal the absence of pulp or solution in a container. In measuring the temperature of solutions in agitators or stirring tanks, the rigid container of an ordinary electric resistance thermometer is replaced by a flexible Pb hood with a thick-walled rubber tube for added protection. In an instrument for the automatic measurement of the thickness of the layer of charge on the pallets of sintering machines, an ordinary 3-wire induction bridge is used (alternating current), the plunger of the pick-up being rigidly connected with the knife that smooths the layer of charge. In measuring the temperature of Pb refining kettles, a thermocouple is welded to the outside of the kettle on the furnace side with shielding, against the furnace gases. In measuring the temperature of Pb smelting products with immersed thermocouples, the working tip is placed in a thin-walled replaceable case of ordinary carbon steel in order to reduce lag. The temperature lag is 25-30 sec. while the service life of the case is 4-6 measurements in the case of the furnace product and matte, and 30 in the case of slag and raw Pb. For single measurements of temperature in the sublimation zone of a rotary tubular furnace, Seger cones are used, or a ceramic Card 2.3.

137-58 4-6543

Automatic Control of Various (cont.)

powder) placed in segments of a tube (each segment having a cone softening at a different temperature). The segments are separated by partitions, and rolled into a single tube that passes through the entire furnace along with the clinker, and the appearance of the cones is used to judge the maximum temperature. In an apparatus for remote control of the level to which a bin is filled with free-flowing material, the determination is made by lowering a weight periodically to contact with the charge. Then, after reducing the tension on the cable, it is raised by an actuating mechanism. A dc current ratio meter, working from a rheostat pick-up built into the actuating mechanism, does the measurement.

M. L.

210--Enrollment--Automatic Control--Enrollment--Automatic

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PETROV, I.K.

Indicators of permissible crown temperatures in high-temperature metallurgical furnaces. Priborostroenie no.5:16-18 My '58.

(Metallurgical furnaces) (Electric controllers) (MIRA 11:6)

AUTHOR: Petrov, I.K.

113-56-5-5/11

TITLE: Signalizing the Maximum Permitted Temperature of the Vaulted Roof of a High-Temperature Metallurgical Furnace (Signalizatsiya predel'no dopustimoy temperatury svoda vysoko-temperaturnykh metallurgicheskikh pechey)

PERIODICAL: Priborostroyeniye, 1958, Nr 5, pp. 16-18 (USSR)

ABSTRACT: For the purpose of solving this problem a cylindrical fire clay block (diameter 25 mm, length 100 mm), into which two holes at distances of from 5 to 8 mm were bored, was used in the laboratory process. Into these holes 2 graphite electrodes were tightly fitted. The electrodes project beyond the fire clay cylinder by 0.5 to 1.0 mm. One of the ends of the fire clay cylinder described is now built into the furnace and the graphite electrodes are connected to the secondary coil of a transformer (26 V) (signal circuit) by way of an ammeter and a safety fuse. On account of heating, the resistance within the signal circuit changes, which fact is recorded by the ammeter. The dependence of the current upon temperature of the furnace in the signal circuit is now measured for various

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Signalizing the Maximum Permitted Temperature of the
Vaulted Roof of a High-Temperature Metallurgical Furnace

11-9-58-5/11

kinds of fire clay material and at certain temperatures, which depend upon the material of the fire clay, a marked maximum is observed.

In practice these maxima may now be used as a characteristic feature. There are 5 figures.

AVAILABLE: Library of Congress

1. Furnaces—Temperature control
2. Refractory materials—Applications

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PETROV, I. K., inzh.

Dynamic investigation of the hydrostatic device for measuring
the density of liquids. Mekh. i avtom. proizv. 18 no. 5:45-47
My '64. (MIRA 17:5)

PETROV, Igor' Konstantinovich; GUR'OV, S., red.; POKHLEBKINA, M.,
tekhn. red.

[Moisture measurement and control] Izmerenie i regulirovanie
vlazhnosti. Moskva, Mosk. rabochii, 1962. 99 p.
(MIRA 16:4)

(Moisture--Measurement) (Automatic control)

PETROV, Iordan Kosev, inzh.

Ball-shaped closing device. Suggested by Iordan Kosev
Petrov. Rats. i izobr. predl. v stroi. no. 11:92-93 '59.
(MIRA 13:3)

1. Po materialam Instituta ratsionalizatsii, Bolgariya.
(Bulgaria--Valves)

PEKHOV, I.M. (Moskva)

Best approximation of class $H_{p,q}$ -functions by certain linear
polynomial operators. Mat. sbor. 67 no.4:529-534 Ag '65.
MIRA (8:8)

L 1993-66 ENT(d)/T IJP(c)

ACCESSION NR: AP5023723

UR/0039/65/067/004/0528/0534
517.43+512.52

AUTHOR: Petrov, I. M. 44.55

TITLE: On best approximations of functions of class Z_{2k} by a linear polynomial operator 16, 44, 55

SOURCE: Matematicheskii sbornik, v. 67, no. 4, 1965, 528-534

TOPIC TAGS: approximation, integral operator, Fourier series

ABSTRACT: A function f is approximated by an integral transform

$$L_n^{(m)}(f, x) = (-1)^{m+1} \frac{1}{\pi} \int_{-\pi}^{\pi} \sum_{k=1}^m (-1)^{m-k} C_m^k / (x + kt) u_n(t) dt \quad (1)$$

where $u_n(t)$ is a finite trigonometric sum constructed from some function φ . This is a special case of the m -singular integrals defined by R. G. Mamedov. The paper studies the convergence of the approximation to f , in cases where f belongs to the class Z_{2k} ($f \in C_{2\pi}$ is in Z_m if

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$$\left| \sum_{k=0}^n (-1)^{n-k} C_n^k f(x+kt) \right| < |t|^n.$$

for all x, t), and under certain assumptions on Φ . $L_n^{(m)}(f, x)$ is shown to be a finite trigonometric polynomial. An estimate is obtained for the closeness of the approximation (in terms of n). The best possible Φ is a solution of a differential equation, which is solved for the case $k = 2$. The case $k = 1$ was solved by Korovkin.. "This work was presented at the 21st MADI scientific research conference and at a seminar on the theory of approximations conducted by S. M. Nikolskiy and P. P. Korovkin. The author expresses his gratitude to P. P. Korovkin for valuable suggestions for simplifying the proofs in the work." Orig. art. has: 12 formulas.

ASSOCIATION: None.

SUBMITTED: 14 Nov 63

ENCL: 00

SUB CODE: MA

NR REF SOV: 006

OTHER: 000

Card 2/2 DP

FILIPPOS'YANTS, T.T., PARAMONOVA, Ye.M., PETROV, I.M.

Processing the culture medium in the production of penicillin.
Med.prom. 12 no.12:33-36 D'58 (MIRA 11:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(PENICILLIN)
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

ILETOV, I.M., arkhitektor

New methods for landscaping cities. Gor.khoz.Mosk. 34 no.3:
1959 Mr '60. (MIRA 13:2)
(Landscape architecture)

PETROV, I.M.

New developments in the construction of greenhouses. Gor.
khoz. Mosk. 37 no.7:42-45 J1 '63. (MIRA 16:11.

AUTHOR: Petrov, I.M.

SOV/42-13-6-15/13

TITLE: The Order of the Approximation of Functions of the Class Z by Certain Polynomial Operators (Poryadok priblizheniya funktsiy klassa Z nekotorymi polinomial'nymi operatorami)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 127-131 (USSR)

ABSTRACT: Let a 2π -periodic function $f(x)$ belong to the class Z if for all x and h there holds: $|f(x+h)-2f(x)+f(x-h)| \leq 2n$. Let

$$L_{2n-2}(f, x) = \frac{3}{2\pi n(2n^2 + \dots)} \int_{-\pi}^{+\pi} f(t) \left[n + 2 \sum_{k=1}^{n-1} (n-k) \cos k(t-x) \right]^2 dt$$

be the operators of Jackson. Let $b_n = \sup_{f(x) \in Z} 2n \|f(x) - L_{2n-2}(f, x)\|$.

Theorem: $\lim_{n \rightarrow \infty} b_n = \frac{12 \ln 2}{\pi}$.

Let $K_n(f, x) = \frac{1}{\pi} \int_{-\pi}^{\pi} f(t) u_n(t-x) dt$, where $u_n(t) =$

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The Order of the Approximation of Functions of the Class Z by Certain Polynomial Operators

$$A |a_1 + a_2 z + \dots + a_{n+1} z^n|^2 = \frac{1}{2} + \sum_{k=1}^n s_k^{(n)} \cos kt,$$

$$A = \frac{1}{2(a_1^2 + a_2^2 + \dots + a_{n+1}^2)}, \quad a_k = \sin \frac{k\pi}{n+2}, \quad z = e^{it}.$$

$$\text{Let } b'_n = \sup_{f(x) \in Z} n \|f(x) - K_n(f, x)\|.$$

$$\text{Theorem: } \lim_{n \rightarrow \infty} b'_n = \int_0^\pi \frac{\sin x}{x} dx = \frac{4}{\pi} \quad (\text{for } K_n(f, x) \text{ compare})$$

Korovkin [Ref 1]).

There is 1 Soviet reference.

SUBMITTED: July 11, 1957

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1. The first part of the document is a list of the names of the individuals who were involved in the project. The names are listed in alphabetical order. The names are: [illegible]

PETROV, I.M.

Order of approximation of class Z_α functions by certain polynomial
operatios. Izv.vys.ucheb.zav.; mat. no.1:188-193 '60. (MIRA 13 :6)

1. Kalininskiy gosudarstvennyy pedagogicheskiy institut imeni M.I.
Kalinina.

(Operators (Mathematics))

LAPIN, P.I.; PETROV, I.M., arkhitekter

Main Botanical Garden of the Academy of Sciences of the U.S.S.R.
Gor. khoz. Mosk. 33 no.7:15-21 JI '59. (MIRA 12:10)

1.Zamestitel' direktora po nauchnoy chasti Glavnogo botanicheskogo
sada AN SSSR (for Lapin). 2.Avtor proyekta Glavnogo botanicheskogo
sada (for Petrov).

(Moscow--Botanical gardens)

PETROV, I.M.

Role of landscape and the extent of area in establishing botanical gardens. Biul.Glav. bot. sada no.39:7-9 '60. (MIRA 14:5)

1. Glavnyy botanicheskiy sad AN SSSR.
(Botanical gardens)